

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-241530

(43)Date of publication of application : 28.10.1991

(51)Int.Cl.

G11B 7/00

G11B 11/10

(21)Application number : 02-036141

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(22)Date of filing : 19.02.1990

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(54) OPTICAL RECORDING METHOD

(57)Abstract:

PURPOSE: To improve the erasion ratio and to improve reproduction signal strength and resolution by varying a spot size on the track of a recording surface and that in the vertical direction at the time of recording and reproducing or recording and erasing.

CONSTITUTION: When the diameter of a recording spot is set to be d_w , the diameter of a reproduction spot to be d_R and the diameter of an erasion spot to be d_E , and when an external magnetic field is impressed on a recording direction, it comes to $d_R < d_W < d_E$. Respective sizes are adjusted by using a focusing error signal and d_E is selected as a just focus spot and d_W as a defocus spot. Thus, the strength of a reproduction signal is high and resolution is satisfactory. When the external magnetic field is impressed on an erasion direction, it is set to be $d_W > d_E$ and it can be set to recording power > erasion power if necessary. When a relative change medium is used, the erasion spot is set to be larger than the recording spot for erasion at the amorphous, crystalline and mixed-phase parts of an amorphous bit peripheral part. Thus, the quality of the reproduction signal can be improved.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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